

CLAIMS

1. A process for manufacturing
5 aminoguanidine bicarbonate from an aqueous solution of
cyanamide and an aqueous solution of hydrazine hydrate
in the presence of CO_2 , characterized in that the
process is performed with a slight deficit of cyanamide
relative to the stoichiometry.
- 10 2. The process as claimed in claim 1,
characterized in that the cyanamide/hydrazine molar
ratio used is between 0.8 and 0.99.
3. The process as claimed in claim 2,
characterized in that the cyanamide/hydrazine molar
15 ratio is between 0.85 and 0.95.
4. The process as claimed in one of claims
1 to 3, characterized in that the pH of the reaction
medium is between 6.5 and 8 and preferably between 7
and 7.3.
- 20 5. The process as claimed in one of claims
1 to 4, characterized in that the temperature of the
reaction medium is between 35°C and 70°C and preferably
between 40°C and 50°C .
- 25 6. The process as claimed in one of claims
1 to 5, characterized in that the pH of the hydrazine
hydrate solution is adjusted using CO_2 , and the aqueous
cyanamide solution is then introduced.

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7. The process as claimed in one of claims 1 to 5, characterized in that an aqueous hydrazine hydrate solution and carbon dioxide are simultaneously added to an aqueous cyanamide solution.

5 8. The process as claimed in either of claims 6 and 7, characterized in that the duration of the addition of cyanamide or of hydrazine hydrate is between 1 and 3 hours.

9. A virtually spherical aggregate of amino
10 guanidine bicarbonate crystals with a mean diameter of between 80 and 500 μm and preferably between 100 and 250 μm .

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